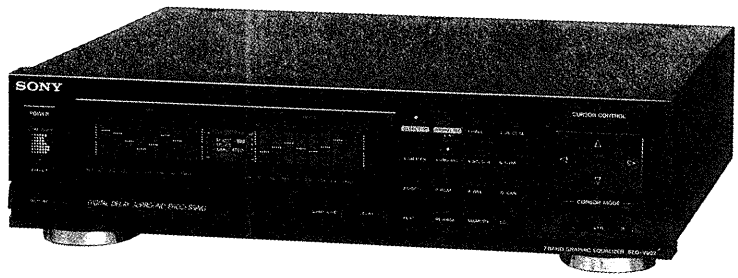
SEQ-V902

SERVICE MANUAL

AEP Model
UK Model
E Model



SPECIFICATIONS

Input	LINE IN: Phono jacks, 245 mV (−10 dB), 50 kohms
Output	LINE OUT: Phono jacks, 245 mV (−10 dB), Load impedance: more than 10 kohms
Graphic equalizer	Boost/cut range: ± 10 dB Center frequencies: 63 Hz, 160 Hz, 400 Hz, 1 kHz, 2.5 kHz, 6.3 kHz, 15 kHz
Frequency response (with EQUALIZATION OFF)	LINE IN: 20 Hz to 50 kHz, $^{+0}_{-1.5}$ dB
Harmonic distortion	LINE IN: Less than 0.01 % (at 1kHz, 1V output)
Signal-to-noise ratio (with EQUALIZATION OFF)	LINE IN: Better than 100 dB (A network, 1V output)
Power requirements	AEP model: 220 V AC, 50/60 Hz UK model: 240 V AC, 50 Hz E model: 110 – 120 or 220 – 240 V AC adjustable, 50/60 Hz
Power consumption	15 W
AC outlet	100 W max. unswitched
Dimensions	Approx. 355 × 92 × 312 mm (w/h/d) (14 × $3^5/_8$ × $12^3/_8$ inches)
Weight	Approx. 2.7 kg (5 lb 15 oz)
Accessories supplied	Connecting cords (2)

Design and specifications subject to change without notice.

Note
This appliance conforms with EEC Directive 87/308/EEC regarding interference suppression.

SAFETY-RELATED COMPONENT WARNING!!

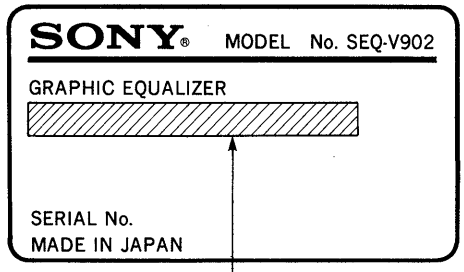
COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

GRAPHIC EQUALIZER

SONY®

MODEL IDENTIFICATION

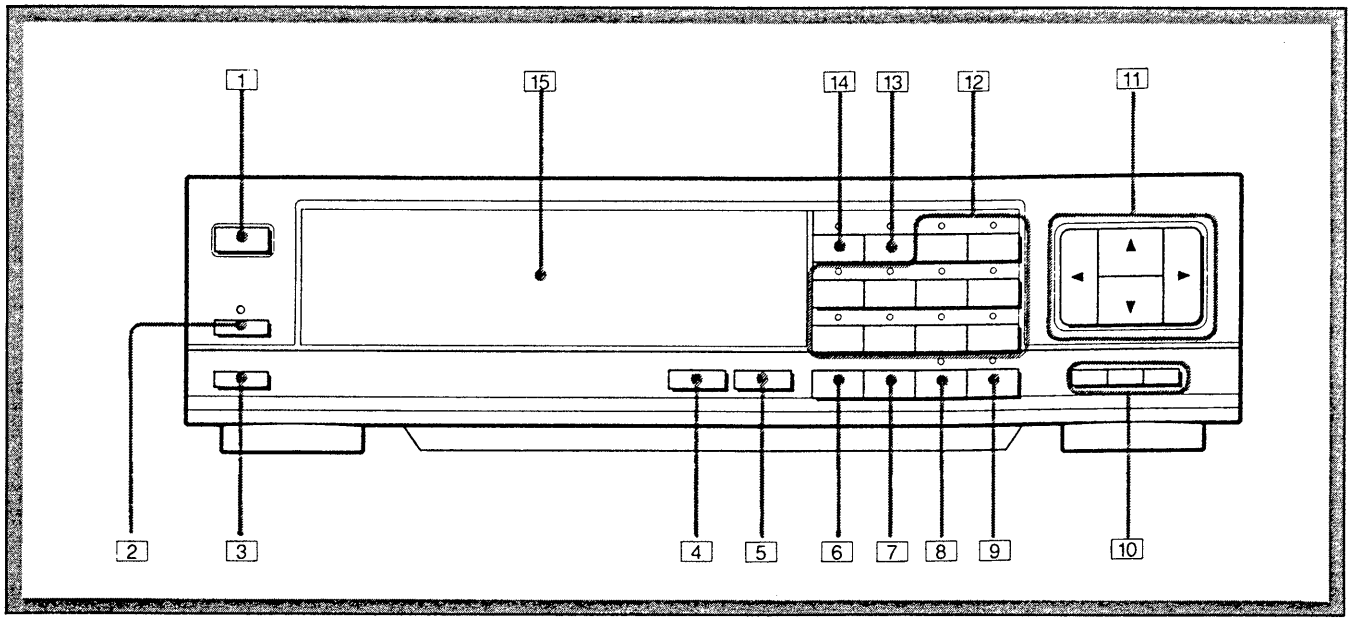
— Specification Label —



AEP Model: AC: 220V—50/60Hz
UK Model: AC: 240V—50/60Hz
E, Saudi Arabia Model: AC: 120/220/240V—50/60Hz
West Germany Model: AC: 220V—50/60Hz

SECTION 1
GENERAL

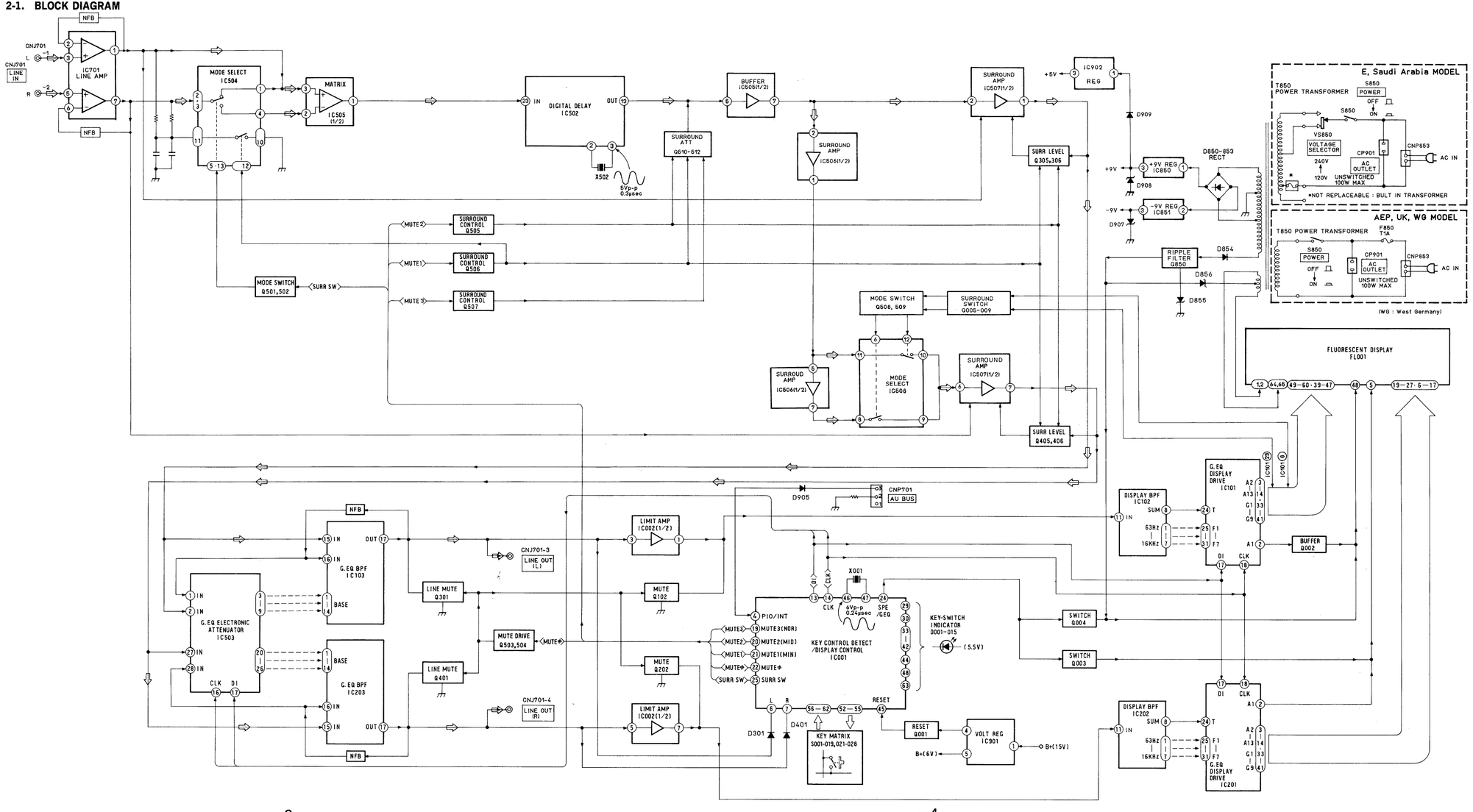
1-1. LOCATION OF CONTROLS



1 POWER switch
2 EFFECT button and indicator
3 DISPLAY button
4 SURROUND button
5 DELAY button
6 FLAT button
7 REVERSE button
8 MEMORY button and indicator
9 DSC (Dynamic Sound Control) button and indicator
10 L/L+R/R buttons
11 CURSOR MODE buttons
12 Numeric buttons and indicators
13 PERSONAL FILE button and indicator
14 SELECT 10 button and indicator
15 Display window

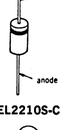
SECTION 2
DIAGRAMS

2-1. BLOCK DIAGRAM



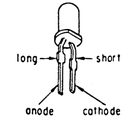
2-2. SEMICONDUCTOR LEAD LAYOUTS

DTA114ES
DTC114ES
2SC2603-EF

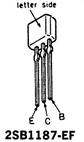


UZP6.8BC

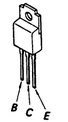
SEL2210S-C



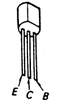
2SA1175-HFE



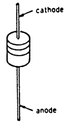
2SB1187-EF



2SC3623A-LK



HZS6A1L
HZS6B1L
HZS30-2L
UZL-7M1
ISS120
11ES2



SEQ-V902 SEQ-V902

2-3. PRINTED WIRING BOARDS

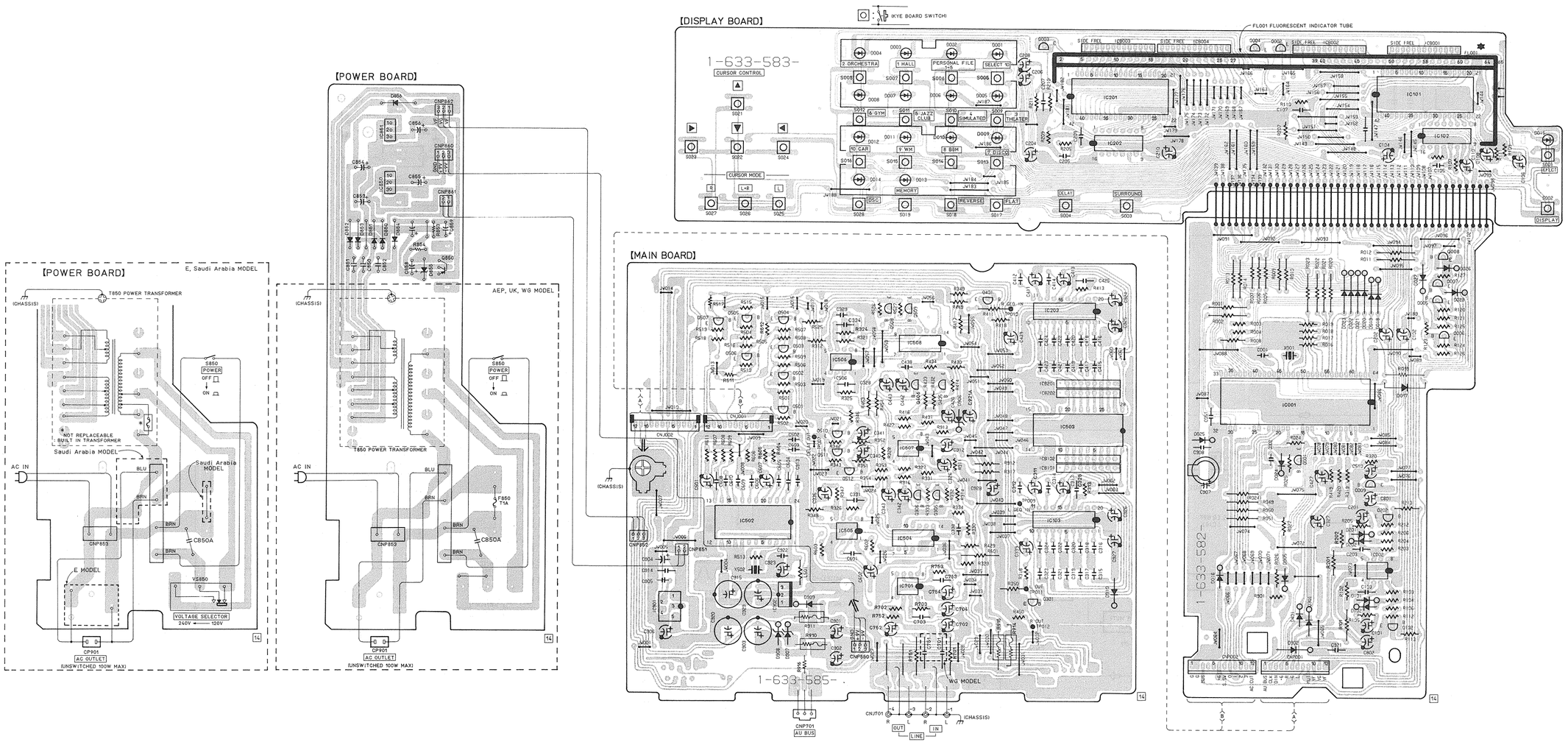
● Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D001	B-16	IC101	B-22
D002	B-15	IC102	C-22
D003	B-14	IC103	I-16
D004	B-14	IC201	B-17
D005	B-16	IC202	C-17
D006	B-15	IC203	E-16
D007	B-14	IC502	I-12
D008	B-14	IC503	G-17
D009	C-16	IC504	I-14
D010	C-15	IC505	I-13
D011	C-14	IC506	F-13
D012	C-14	IC507	G-14
D013	C-14	IC508	F-14
D014	C-14	IC701	I-14
D015	C-24	IC850	C-7
D016	I-19	IC851	C-7
D017	G-22	IC901	J-11
D018	E-21	IC902	J-12
D019	E-21		
D020	E-21	Q001	H-20
D021	E-21	Q002	B-20
D022	E-21	Q003	B-16
D023	E-21	Q004	B-19
D024	H-20	Q005	E-22
D025	G-19	Q006	F-22
D026	E-22	Q007	E-22
D027	E-22	Q008	E-22
D028	E-22	Q009	H-21
D101	J-21	Q102	J-21
D102	J-21	Q202	H-21
D201	I-21	Q301	J-16
D202	I-21	Q305	H-15
D301	J-20	Q306	H-14
D401	J-20	Q401	E-15
D850	D-6	Q405	G-15
D851	D-6	Q406	G-14
D852	D-6	Q501	G-12
D853	D-6	Q502	F-12
D854	D-7	Q503	F-12
D855	E-7	Q504	F-12
D856	B-7	Q505	F-12
D902	J-20	Q506	F-12
D905	I-20	Q507	F-11
D906	G-15	Q508	E-14
D907	J-12	Q509	E-14
D908	J-12	Q510	G-13
D909	J-13	Q511	H-13
D910	J-17	Q512	H-13
		Q850	E-7
IC001	G-20		
IC002	I-21		

Note:

● ○—— : parts extracted from the component side.

● WG : West Germany



IC502 VOLTAGE LIST

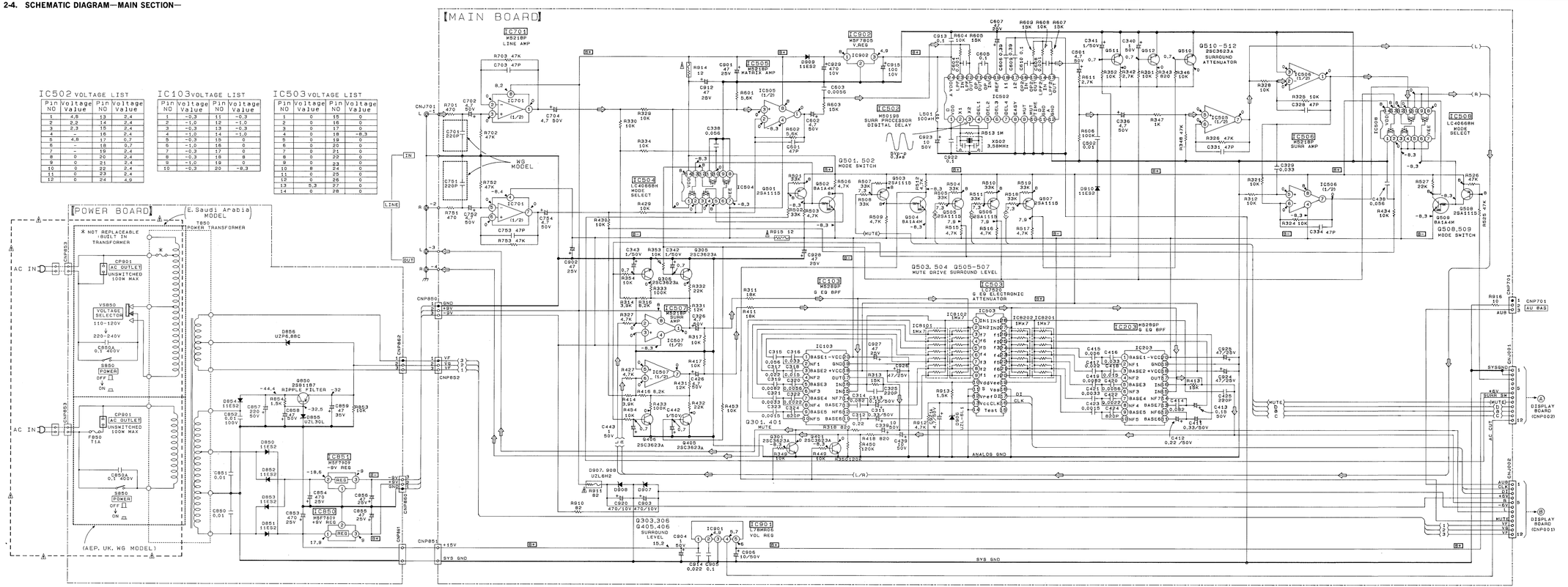
Pin NO	Voltage Value	Pin NO	Voltage Value
1	4,8	13	2,4
2	2,2	14	2,4
3	2,3	15	2,4
4	–	16	2,4
5	4,8	17	0,7
6	–	18	0,7
7	–	19	2,4
8	0	20	2,4
9	0	21	2,4
10	0	22	2,4
11	0	23	2,4
12	0	24	4,9

IC103 VOLTAGE LIST

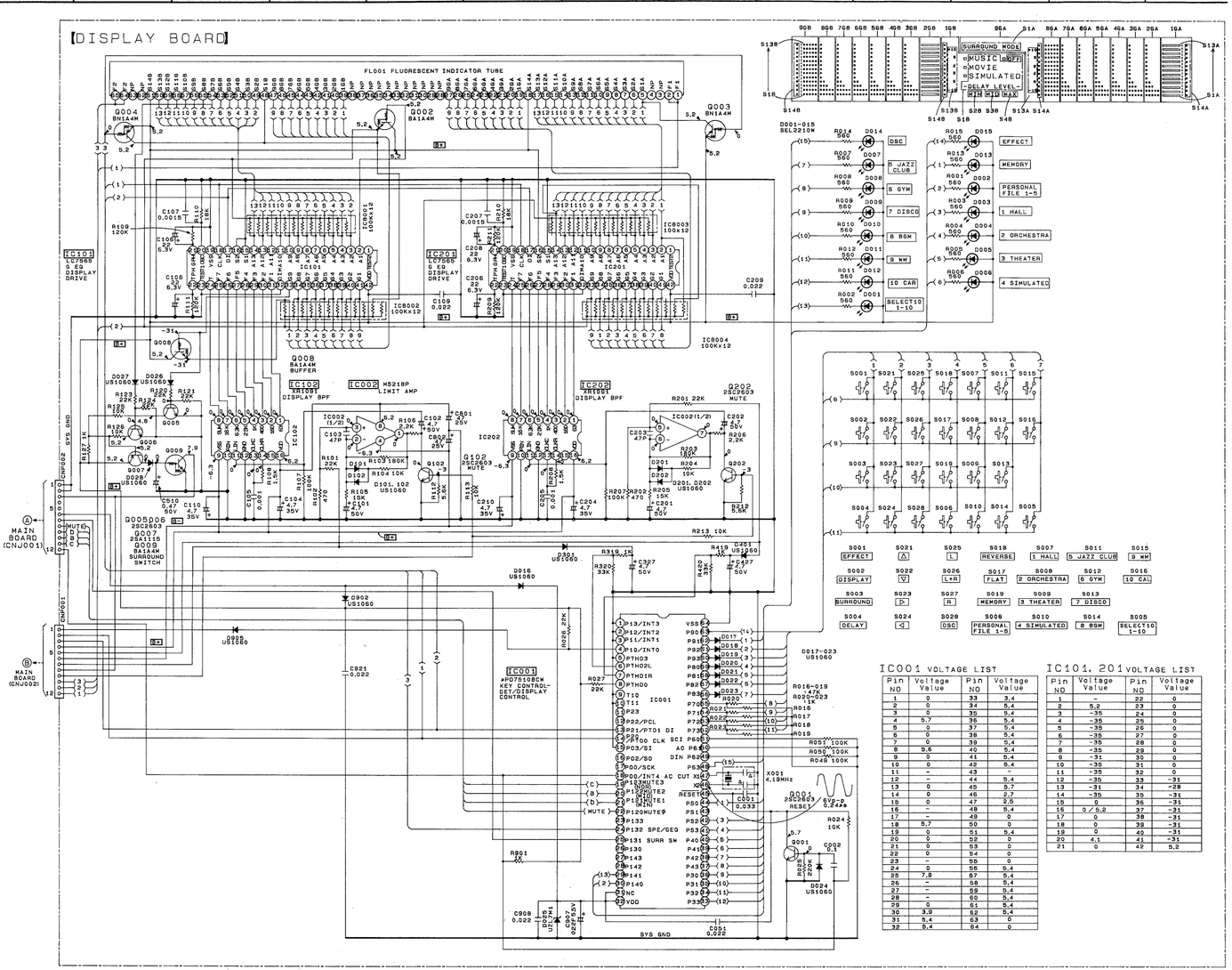
Pin NO	Voltage Value	Pin NO	Voltage Value
1	-0,3	11	-0,3
2	-1,0	12	-1,0
3	-0,3	13	-0,3
4	+1,0	14	-1,0
5	-0,3	15	0
6	-1,0	16	0
7	-0,3	17	0
8	-0,3	18	8
9	-1,0	19	0
10	-0,3	20	-8,3

IC503 VOLTAGE LIST

Pin NO	Voltage Value	Pin NO	Voltage Value
1	0	15	0
2	0	16	0
3	0	17	0
4	0	18	-8,3
5	0	19	0
6	0	20	0
7	0	21	0
8	0	22	0
9	0	23	0
10	8	24	0
11	0	25	0
12	0	26	0
13	5,3	27	0
14	0	28	0


MAIN BOARD
POWER BOARD
(E.Saudi Arabia) MODEL
(AEP, UK, WG MODEL)
WG MODEL
IC701 M5218P LINE AMP
IC902 M5F7805 V.REG
IC505 M5218P MATRIX AMP
IC502 M50195 SURR PROCESSOR DIGITAL DELAY
IC504 LC4066BH MODE SELECT
IC506 M5218P SURR AMP
IC508 LC4066BH MODE SELECT
IC103 M5289P D EQ BPF
IC503 LC7535 G EQ ELECTRONIC ATTENUATOR
IC203 M5289P D EQ BPF
IC851 M5F7909 -9V REG
IC901 L78MR05 VOL REG
Q501, 502 MODE SWITCH
Q503, 504 Q505-507 MUTE DRIVE SURROUND LEVEL
Q510-512 2SC3623A SURROUND ATTENUATOR
Q508, 509 MODE SWITCH
Q301, 401 MUTE
Q303, 306 Q405, 406 SURROUND LEVEL
T850 POWER TRANSFORMER
* NOT REPLACEABLE BUILT IN TRANSFORMER
CP901 AC OUTLET UNSWITCHED 100W MAX
VS850 VOLTAGE SELECTION 110-120V 220-240V
S850 POWER OFF ON
F850 T1A
D856 U2P6.88C
Q850 2SB1187 RIPPLE FILTER
D851 UZL30L
D850 D851 D852 D853 11ES2
D854 11ES2
D855 UZL30L
IC852 M5218P LINE AMP
IC504 LC4066BH MODE SELECT
IC505 M5218P MATRIX AMP

2-5. SCHEMATIC DIAGRAM—DISPLAY SECTION—



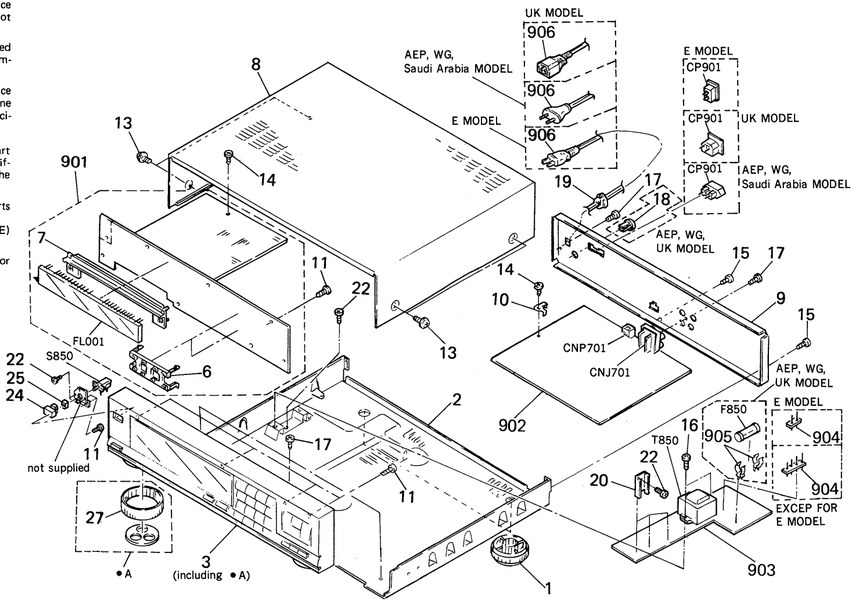
SECTION 3
EXPLODED VIEW

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.
- Color Indication of Appearance Parts Example:
  (RED) . . . KNOB, BALANCE (WHITE)
  ↑ Cabinet's Color ↑ Parts Color

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

• WG: West Germany



No.	Part No.	Description	Remarks
1	*4-934-883-01	FOOT	
2	*4-924-520-01	CHASSIS	
3	X-4917-295-1	PANEL ASSY, FRONT	
6	*4-934-823-01	HOLDER, LED	
7	*4-933-621-01	HOLDER (EQ), FL	
8	4-919-376-31	CASE	
9	*4-937-306-01	(AE1).....PANEL, BACK	
	*4-937-306-11	(AE2).....PANEL, BACK	
	*4-937-306-21	(UK).....PANEL, BACK	
	*4-937-306-31	(E).....PANEL, BACK	
	*4-937-306-41	(WG).....PANEL, BACK	
	*4-937-306-51	(Saudi Arabia)...PANEL, BACK	
10	*3-346-266-12	PLATE, GROUND	
11	4-928-635-01	SCREW +BV 2.6X8	
13	3-704-366-01	SCREW (CASE) (M3X8)	
14	7-682-547-04	SCREW +BVTT 3X6 (S)	
15	7-682-547-09	SCREW +BVTT 3X6 (S)	
16	3-703-249-31	SCREW, S TIGHT, +PTTWH (M3X10)	
17	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
18	4-935-307-03	(AEP,WG,UK)...HOLDER, PC BOARD	
19	*3-703-244-00	(EXCEPT E)....BUSHING (2104), CORD	
	*3-703-571-11	(E).....BUSHING (4516), CORD	
20	*3-309-144-21	HEAT SINK	
22	7-682-548-04	SCREW +BVTT 3X8 (S)	
24	4-921-919-01	BUTTON (P)	
25	4-864-307-00	RING	
27	4-921-918-01	PLATE, ORNAMENTAL	

No.	Part No.	Description	Remarks
901	*A-4334-699-A	(AEP,WG,E,Saudi Arabia)	
		...MOUNTED PCB, DISPLAY	
	*A-4334-700-A	(UK).....MOUNTED PCB, DISPLAY	
902	*A-4334-701-A	(AEP,E,Saudi Arabia)..MOUNTED PCB, MAIN	
	*A-4334-702-A	(WG).....MOUNTED PCB, MAIN	
	*A-4334-703-A	(UK).....MOUNTED PCB, MAIN	
903	*1-635-027-11	PC BOARD, POWER	
904	⚠.*1-535-139-00	(E).....BASE POST 22MM (10MM PITCH) 2P	
	⚠.*1-535-141-00	(AEP,WG,UK,Saudi Arabia)	
		...BASE POST 22MM (10MM PITCH) 4P	
905	1-533-213-31	(AEP,WG,UK)...HOLDER, FUSE	
906	⚠.1-575-651-11	(AEP,WG,Saudi Arabia)...CORD, POWER	
	⚠.1-575-656-11	(E).....CORD, POWER	
	⚠.1-575-669-21	(UK).....CORD, POWER	
CNJ701	1-565-258-11	JACK, PIN 4P (LINE IN/OUT)	
CNP701	*1-565-561-11	PIN, CONNECTOR 3P (AU BUS)	
CP901	⚠.1-526-794-11	(AEP,WG,Saudi Arabia)...OUTLET, AC	
CP901	⚠.1-526-751-11	(UK).....OUTLET, AC	
CP901	⚠.1-540-038-11	(E).....OUTLET, AC (NONPOLAR)(1P)	
F850	⚠.1-532-078-00	(AEP,WG,UK)...FUSE (T 1A)	
FL001	1-519-559-11	INDICATOR TUBE, FLUORESCENT	
S850	⚠.1-554-920-11	SWITCH, PUSH (AC POWER)(1 KEY)	
T850	⚠.1-450-117-11	(UK).....TRANSFORMER, POWER	
T850	⚠.1-450-118-11	(E,Saude Arabia)...TRANSFORMER, POWER	
T850	⚠.1-450-119-11	(AEP,WG).....TRANSFORMER, POWER	

SECTION 4
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF: μF, PF: μμF.

RESISTORS
- All resistors are in ohms.
- F: nonflammable

COILS
- MMH: mH, UH: μH

SEMICONDUCTORS
In each case, U: μ, for example:
UA...: μA..., UPA...: μPA...,
UPC...: μPC, UPD...: μPD...

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

- WG: West Germany

Ref.No.	Part No.	Description
901	*A-4334-699-A	(AEP,WG,E,Saudi Arabia) ...MOUNTED PCB, DISPLAY
	*A-4334-700-A	(UK).....MOUNTED PCB, DISPLAY
902	*A-4334-701-A	(AEP,E,Saudi Arabia)..MOUNTED PCB, MAIN
	*A-4334-702-A	(WG)....MOUNTED PCB, MAIN
	*A-4334-703-A	(UK)....MOUNTED PCB, MAIN
903	*1-635-027-11	PC BOARD, POWER
904 ⚠	*1-535-139-00	(E).....BASE POST 22MM (10MM PITCH) 2P
⚠	*1-535-141-00	(AEP,WG,UK,Saudi Arabia) ...BASE POST 22MM (10MM PITCH) 4P
905	1-533-213-31	(AEP,WG,UK)...HOLDER, FUSE
906 ⚠	1-575-651-11	(AEP,WG,Saudi Arabia)...CORD, POWER
⚠	1-575-656-11	(E).....CORD, POWER
⚠	1-575-669-21	(UK).....CORD, POWER

Ref.No.	Part No.	Description			
C001	1-136-159-00	FILM	0.033MF	5%	50V
C002	1-136-165-00	FILM	0.1MF	5%	50V
C051	1-161-494-00	CERAMIC	0.022MF		25V
C101	1-124-045-00	ELECT	4.7MF	20%	50V
C102	1-124-045-00	ELECT	4.7MF	20%	50V
C103	1-162-215-31	CERAMIC	47PF	5%	50V
C104	1-126-094-11	ELECT	4.7MF	20%	35V
C105	1-130-471-00	MYLAR	0.001MF	5%	50V
C106	1-124-638-11	ELECT	22MF	20%	6.3V
C107	1-161-374-11	CERAMIC	0.0015MF	20%	16V
C108	1-124-638-11	ELECT	22MF	20%	6.3V
C109	1-161-494-00	CERAMIC	0.022MF		25V
C110	1-126-094-11	ELECT	4.7MF	20%	35V
C201	1-124-045-00	ELECT	4.7MF	20%	50V
C202	1-124-045-00	ELECT	4.7MF	20%	50V
C203	1-162-215-31	CERAMIC	47PF	5%	50V
C204	1-126-094-11	ELECT	4.7MF	20%	35V
C205	1-130-471-00	MYLAR	0.001MF	5%	50V
C206	1-124-638-11	ELECT	22MF	20%	6.3V
C207	1-161-374-11	CERAMIC	0.0015MF	20%	16V
C208	1-124-638-11	ELECT	22MF	20%	6.3V
C209	1-161-494-00	CERAMIC	0.022MF		25V
C210	1-126-094-11	ELECT	4.7MF	20%	35V
C311	1-124-252-00	ELECT	0.33MF	20%	50V
C312	1-136-169-00	FILM	0.22MF	5%	50V
C313	1-124-250-00	ELECT	0.15MF	20%	50V
C314	1-136-164-00	FILM	0.082MF	5%	50V
C315	1-136-162-00	FILM	0.056MF	5%	50V
C316	1-136-159-00	FILM	0.033MF	5%	50V
C317	1-136-157-00	FILM	0.022MF	5%	50V
C318	1-136-155-00	FILM	0.015MF	5%	50V
C319	1-130-482-00	MYLAR	0.0082MF	5%	50V
C320	1-130-480-00	MYLAR	0.0056MF	5%	50V
C321	1-130-477-00	MYLAR	0.0033MF	5%	50V
C322	1-130-475-00	MYLAR	0.0022MF	5%	50V
C323	1-130-473-00	MYLAR	0.0015MF	5%	50V
C324	1-130-470-00	MYLAR	820PF	5%	50V
C325	1-162-286-31	CERAMIC	220PF	10%	50V
C326	1-124-045-00	ELECT	4.7MF	20%	50V
C327	1-124-045-00	ELECT	4.7MF	20%	50V
C328	1-162-215-31	CERAMIC	47PF	5%	50V
C329	1-136-159-00	FILM	0.033MF	5%	50V
C331	1-162-215-31	CERAMIC	47PF	5%	50V
C334	1-162-215-31	CERAMIC	47PF	5%	50V
C336	1-124-045-00	ELECT	4.7MF	20%	50V
C338	1-136-162-00	FILM	0.056MF	5%	50V
C339	1-126-059-11	ELECT	10MF	20%	50V
C340	1-126-301-11	ELECT	1MF	20%	50V
C341	1-126-301-11	ELECT	1MF	20%	50V
C342	1-126-301-11	ELECT	1MF	20%	50V
C343	1-126-301-11	ELECT	1MF	20%	50V
C411	1-124-252-00	ELECT	0.33MF	20%	50V
C412	1-136-169-00	FILM	0.22MF	5%	50V
C413	1-124-250-00	ELECT	0.15MF	20%	50V
C414	1-136-164-00	FILM	0.082MF	5%	50V
C415	1-136-162-00	FILM	0.056MF	5%	50V
C416	1-136-159-00	FILM	0.033MF	5%	50V
C417	1-136-157-00	FILM	0.022MF	5%	50V
C418	1-136-155-00	FILM	0.015MF	5%	50V
C419	1-130-482-00	MYLAR	0.0082MF	5%	50V
C420	1-130-480-00	MYLAR	0.0056MF	5%	50V
C421	1-130-477-00	MYLAR	0.0033MF	5%	50V
C422	1-130-475-00	MYLAR	0.0022MF	5%	50V
C423	1-130-473-00	MYLAR	0.0015MF	5%	50V
C424	1-130-470-00	MYLAR	820PF	5%	50V
C425	1-162-286-31	CERAMIC	220PF	10%	50V
C426	1-124-045-00	ELECT	4.7MF	20%	50V
C427	1-124-045-00	ELECT	4.7MF	20%	50V
C438	1-136-162-00	FILM	0.056MF	5%	50V
C439	1-126-059-11	ELECT	10MF	20%	50V
C442	1-126-301-11	ELECT	1MF	20%	50V
C443	1-126-301-11	ELECT	1MF	20%	50V
C501	1-124-045-00	ELECT	4.7MF	20%	50V
C502	1-136-153-00	FILM	0.01MF	5%	50V
C510	1-126-300-11	ELECT	0.47MF	20%	50V

Ref.No.	Part No.	Description			
C601	1-162-215-31	CERAMIC	47PF	5%	50V
C602	1-124-045-00	ELECT	4.7MF	20%	50V
C603	1-130-480-00	MYLAR	0.0056MF	5%	50V
C604	1-162-294-31	CERAMIC	0.001MF	10%	50V
C605	1-136-165-00	FILM	0.1MF	5%	50V
C606	1-136-172-00	FILM	0.39MF	5%	50V
C607	1-124-910-11	ELECT	47MF	20%	25V
C608	1-162-294-31	CERAMIC	0.001MF	10%	50V
C609	1-136-172-00	FILM	0.39MF	5%	50V
C610	1-136-165-00	FILM	0.1MF	5%	50V
C701	1-162-286-31	(WG)...CERAMIC	220PF	10%	50V
C702	1-124-045-00	ELECT	4.7MF	20%	50V
C703	1-162-215-31	CERAMIC	47PF	5%	50V
C704	1-124-045-00	ELECT	4.7MF	20%	50V
C751	1-162-286-31	(WG)...CERAMIC	220PF	10%	50V
C752	1-124-045-00	ELECT	4.7MF	20%	50V
C753	1-162-215-31	CERAMIC	47PF	5%	50V
C754	1-124-045-00	ELECT	4.7MF	20%	50V
C801	1-124-910-11	ELECT	47MF	20%	25V
C802	1-124-910-11	ELECT	47MF	20%	25V
C850A	1-161-744-00	CERAMIC	0.01MF		400V
C850	1-164-096-11	CERAMIC	0.01MF		50V
C851	1-164-096-11	CERAMIC	0.01MF		50V
C852	1-106-367-00	MYLAR	0.01MF	10%	100V
C853	1-126-376-11	ELECT	470MF	20%	25V
C854	1-126-376-11	ELECT	470MF	20%	25V
C855	1-124-910-11	ELECT	47MF	20%	25V
C856	1-124-910-11	ELECT	47MF	20%	25V
C857	1-124-911-11	ELECT	220MF	20%	50V
C858	1-124-910-11	ELECT	47MF	20%	50V
C859	1-124-910-11	ELECT	47MF	20%	35V
C901	1-124-910-11	ELECT	47MF	20%	25V
C902	1-124-910-11	ELECT	47MF	20%	25V
C903	1-124-997-11	ELECT	470MF	20%	10V
C904	1-126-301-11	ELECT	1MF	20%	50V
C905	1-136-165-00	FILM	0.1MF	5%	50V
C906	1-126-059-11	ELECT	10MF	20%	50V
C907	1-125-486-11	CAP,DOUBLE LAYERS	0.22F		5.5V
C908	1-161-494-00	CERAMIC	0.022MF		25V
C912	1-124-910-11	ELECT	47MF	20%	25V
C913	1-136-165-00	FILM	0.1MF	5%	50V
C914	1-161-494-00	CERAMIC	0.022MF		25V
C915	1-124-994-11	ELECT	100MF	20%	10V
C920	1-124-997-11	ELECT	470MF	20%	10V
C921A	1-124-045-00	ELECT	4.7MF	20%	50V
C921B	1-161-494-00	CERAMIC	0.022MF		25V
C922	1-136-165-00	FILM	0.1MF	5%	50V
C923	1-126-059-11	ELECT	10MF	20%	50V
C924	1-124-910-11	ELECT	47MF	20%	25V
C925	1-124-910-11	ELECT	47MF	20%	25V
C926	1-124-910-11	ELECT	47MF	20%	25V
C927	1-124-910-11	ELECT	47MF	20%	25V
C928	1-124-910-11	ELECT	47MF	20%	25V
C929	1-124-997-11	ELECT	470MF	20%	10V
CNJ001	*1-569-083-11	SOCKET, CONNECTOR 12P			
CNJ002	*1-569-083-11	SOCKET, CONNECTOR 12P			
CNJ701	1-565-258-11	JACK, PIN 4P (LINE IN/OUT)			

Ref.No.	Part No.	Description
CNP001	*1-569-082-11	PIN, CONNECTOR 12P
CNP002	*1-569-082-11	PIN, CONNECTOR 12P
CNP701	*1-565-561-11	PIN, CONNECTOR 3P (AU BUS)
CNP850	*1-564-337-61	PIN, CONNECTOR 3P
CNP851	*1-564-336-00	PIN, CONNECTOR 2P
CNP852	*1-564-337-00	PIN, CONNECTOR 3P
⚠CNP853	.*1-564-321-00	PIN, CONNECTOR 2P
CNP860	*1-564-337-61	PIN, CONNECTOR 3P
CNP861	*1-564-336-00	PIN, CONNECTOR 2P
CNP862	*1-564-337-00	PIN, CONNECTOR 3P
CP901	⚠.1-526-794-11	(AEP,WG,Saudi Arabia)...OUTLET, AC
CP901	⚠.1-526-751-11	(UK).....OUTLET, AC
CP901	⚠.1-540-038-11	(E).....OUTLET, AC (NONPOLAR)(1P)
D001	8-719-301-38	DIODE SEL2210S-C (SELECT 10 1-10)
D002	8-719-301-38	DIODE SEL2210S-C (PERSONAL FILE 1-5)
D003	8-719-301-38	DIODE SEL2210S-C (1 HALL)
D004	8-719-301-38	DIODE SEL2210S-C (2 ORCHESTRA)
D005	8-719-301-38	DIODE SEL2210S-C (3 THEATER)
D006	8-719-301-38	DIODE SEL2210S-C (4 SIMULATED)
D007	8-719-301-38	DIODE SEL2210S-C (5 JAZZ CLUB)
D008	8-719-301-38	DIODE SEL2210S-C (6 GYM)
D009	8-719-301-38	DIODE SEL2210S-C (7 DISCO)
D010	8-719-301-38	DIODE SEL2210S-C (8 BGM)
D011	8-719-301-38	DIODE SEL2210S-C (9 WM)
D012	8-719-301-38	DIODE SEL2210S-C (10 CAR)
D013	8-719-301-38	DIODE SEL2210S-C (MEMORY)
D014	8-719-301-38	DIODE SEL2210S-C (DSC)
D015	8-719-301-38	DIODE SEL2210S-C (EFFECT)
D016	8-719-912-20	DIODE 1SS120
D017	8-719-912-20	DIODE 1SS120
D018	8-719-912-20	DIODE 1SS120
D019	8-719-912-20	DIODE 1SS120
D020	8-719-912-20	DIODE 1SS120
D021	8-719-912-20	DIODE 1SS120
D022	8-719-912-20	DIODE 1SS120
D023	8-719-912-20	DIODE 1SS120
D024	8-719-912-20	DIODE 1SS120
D025	8-719-000-84	DIODE UZL-7M1
D026	8-719-912-20	DIODE 1SS120
D027	8-719-912-20	DIODE 1SS120
D028	8-719-912-20	DIODE 1SS120
D101	8-719-912-20	DIODE 1SS120
D102	8-719-912-20	DIODE 1SS120
D201	8-719-912-20	DIODE 1SS120
D202	8-719-912-20	DIODE 1SS120
D301	8-719-912-20	DIODE 1SS120
D401	8-719-912-20	DIODE 1SS120
D850	8-719-200-82	DIODE 11ES2
D851	8-719-200-82	DIODE 11ES2
D852	8-719-200-82	DIODE 11ES2
D853	8-719-200-82	DIODE 11ES2
D854	8-719-200-82	DIODE 11ES2
D855	8-719-934-22	DIODE HZS30-2L
D856	8-719-014-88	DIODE UZP-6.8BC
D902	8-719-912-20	DIODE 1SS120
D905	8-719-912-20	DIODE 1SS120
D906	8-719-933-33	DIODE HZS6A1L
D907	8-719-933-36	DIODE HZS6B1L

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref.No.	Part No.	Description
D908	8-719-933-36	DIODE HZS6B1L
D909	8-719-200-82	DIODE 1ES2
D910	8-719-200-82	DIODE 1ES2
F850 ⚠	1-532-078-00	(AEP,WG,UK)...FUSE (T 1A)
FL001	1-519-559-11	INDICATOR TUBE, FLUORESCENT
IC001	8-759-149-01	IC UPD75108CW-B10
IC002	8-759-601-02	IC M5218P
IC101	8-759-822-27	IC LC7565K
IC102	8-759-991-11	IC XR1091
IC103	8-759-633-78	IC M5289P
IC201	8-759-822-27	IC LC7565K
IC202	8-759-991-11	IC XR1091
IC203	8-759-633-78	IC M5289P
IC502	8-759-633-83	IC M50198P
IC503	8-759-822-25	IC LC7520K
IC504	8-759-800-37	IC LC4066BH
IC505	8-759-601-02	IC M5218PK
IC506	8-759-601-02	IC M5218PK
IC507	8-759-601-02	IC M5218PK
IC508	8-759-800-37	IC LC4066BHK
IC701	8-759-601-02	IC M5218PK
IC850	8-759-982-10	IC RC7809FA
IC851	8-759-604-49	IC M5F7909
IC901	8-759-820-13	IC L78MR06
IC902	8-759-604-29	IC M5F7805
ICB001	1-233-198-11	COMPOSITION CIRCUIT BLOCK (100KX12)
ICB002	1-233-198-11	COMPOSITION CIRCUIT BLOCK (100KX12)
ICB003	1-233-198-11	COMPOSITION CIRCUIT BLOCK (100KX12)
ICB004	1-233-198-11	COMPOSITION CIRCUIT BLOCK (100KX12)
ICB101	1-233-200-11	COMPOSITION CIRCUIT BLOCK (1MX7)
ICB102	1-233-200-11	COMPOSITION CIRCUIT BLOCK (1MX7)
ICB201	1-233-200-11	COMPOSITION CIRCUIT BLOCK (1MX7)
ICB202	1-233-200-11	COMPOSITION CIRCUIT BLOCK (1MX7)
L501	1-410-521-11	INDUCTOR 100UH
Q001	8-729-620-05	TRANSISTOR 2SC2603-EF
Q002	8-729-900-80	TRANSISTOR DTC114ES
Q003	8-729-900-61	TRANSISTOR DTA114ES
Q004	8-729-900-61	TRANSISTOR DTA114ES
Q005	8-729-620-05	TRANSISTOR 2SC2603-EF
Q006	8-729-620-05	TRANSISTOR 2SC2603-EF
Q007	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q008	8-729-900-80	TRANSISTOR DTC114ES
Q009	8-729-900-80	TRANSISTOR DTC114ES
Q102	8-729-620-05	TRANSISTOR 2SC2603-EF
Q202	8-729-620-05	TRANSISTOR 2SC2603-EF
Q301	8-729-141-30	TRANSISTOR 2SC3623A-LK
Q305	8-729-141-30	TRANSISTOR 2SC3623A-LK
Q306	8-729-141-30	TRANSISTOR 2SC3623A-LK
Q401	8-729-141-30	TRANSISTOR 2SC3623A-LK
Q405	8-729-141-30	TRANSISTOR 2SC3623A-LK
Q406	8-729-141-30	TRANSISTOR 2SC3623A-LK
Q501	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q502	8-729-900-80	TRANSISTOR DTC114ES
Q503	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q504	8-729-900-80	TRANSISTOR DTC114ES

Ref.No.	Part No.	Description
Q505	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q506	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q507	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q508	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q509	8-729-900-80	TRANSISTOR DTC114ES
Q510	8-729-141-30	TRANSISTOR 2SC3623A-LK
Q511	8-729-141-30	TRANSISTOR 2SC3623A-LK
Q512	8-729-141-30	TRANSISTOR 2SC3623A-LK
Q850	8-729-920-97	TRANSISTOR 2SB1187-EF

R001	1-249-414-11	CARBON	560	5%	1/4W
R002	1-249-414-11	CARBON	560	5%	1/4W
R003	1-249-414-11	CARBON	560	5%	1/4W
R004	1-249-414-11	CARBON	560	5%	1/4W
R005	1-249-414-11	CARBON	560	5%	1/4W
R006	1-249-414-11	CARBON	560	5%	1/4W
R007	1-249-414-11	CARBON	560	5%	1/4W
R008	1-249-414-11	CARBON	560	5%	1/4W
R009	1-249-414-11	CARBON	560	5%	1/4W
R010	1-249-414-11	CARBON	560	5%	1/4W
R011	1-249-414-11	CARBON	560	5%	1/4W
R012	1-249-414-11	CARBON	560	5%	1/4W
R013	1-249-414-11	CARBON	560	5%	1/4W
R014	1-249-414-11	CARBON	560	5%	1/4W
R015	1-249-414-11	CARBON	560	5%	1/4W
R016	1-249-437-11	CARBON	47K	5%	1/4W
R017	1-249-437-11	CARBON	47K	5%	1/4W
R018	1-249-437-11	CARBON	47K	5%	1/4W
R019	1-249-437-11	CARBON	47K	5%	1/4W
R020	1-249-417-11	CARBON	1K	5%	1/4W
R021	1-249-417-11	CARBON	1K	5%	1/4W
R022	1-249-417-11	CARBON	1K	5%	1/4W
R023	1-249-417-11	CARBON	1K	5%	1/4W
R024	1-249-429-11	CARBON	10K	5%	1/4W
R025	1-247-887-00	CARBON	220K	5%	1/4W
R026	1-249-433-11	CARBON	22K	5%	1/4W
R027	1-249-433-11	CARBON	22K	5%	1/4W
R049	1-249-441-11	CARBON	100K	5%	1/4W
R050	1-249-441-11	CARBON	100K	5%	1/4W
R051	1-249-441-11	CARBON	100K	5%	1/4W
R101	1-249-433-11	CARBON	22K	5%	1/4W
R102	1-249-413-11	CARBON	470	5%	1/4W
R103	1-247-885-00	CARBON	180K	5%	1/4W
R104	1-249-429-11	CARBON	10K	5%	1/4W
R105	1-249-431-11	CARBON	15K	5%	1/4W
R106	1-249-421-11	CARBON	2.2K	5%	1/4W
R107	1-249-441-11	CARBON	100K	5%	1/4W
R108	1-249-419-11	CARBON	1.5K	5%	1/4W
R109	1-247-881-00	CARBON	120K	5%	1/4W
R110	1-249-432-11	CARBON	18K	5%	1/4W
R111	1-247-881-00	CARBON	120K	5%	1/4W
R112	1-249-426-11	CARBON	5.6K	5%	1/4W
R113	1-249-429-11	CARBON	10K	5%	1/4W
R120	1-249-433-11	CARBON	22K	5%	1/4W
R121	1-249-433-11	CARBON	22K	5%	1/4W
R123	1-249-433-11	CARBON	22K	5%	1/4W
R124	1-249-433-11	CARBON	22K	5%	1/4W
R125	1-249-429-11	CARBON	10K	5%	1/4W

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref.No.	Part No.	Description			
R126	1-249-429-11	CARBON	10K	5%	1/4W
R127	1-249-417-11	CARBON	1K	5%	1/4W
R201	1-249-433-11	CARBON	22K	5%	1/4W
R202	1-249-413-11	CARBON	470	5%	1/4W
R203	1-247-885-00	CARBON	180K	5%	1/4W
R204	1-249-429-11	CARBON	10K	5%	1/4W
R205	1-249-431-11	CARBON	15K	5%	1/4W
R206	1-249-421-11	CARBON	2.2K	5%	1/4W
R207	1-249-441-11	CARBON	100K	5%	1/4W
R208	1-249-419-11	CARBON	1.5K	5%	1/4W
R209	1-247-881-00	CARBON	120K	5%	1/4W
R210	1-249-432-11	CARBON	18K	5%	1/4W
R211	1-247-881-00	CARBON	120K	5%	1/4W
R212	1-249-426-11	CARBON	5.6K	5%	1/4W
R213	1-249-429-11	CARBON	10K	5%	1/4W
R311	1-249-432-11	CARBON	18K	5%	1/4W
R312	1-249-429-11	CARBON	10K	5%	1/4W
R313	1-249-431-11	CARBON	15K	5%	1/4W
R314	1-249-424-11	CARBON	3.9K	5%	1/4W
R316	1-249-428-11	CARBON	8.2K	5%	1/4W
R317	1-249-429-11	CARBON	10K	5%	1/4W
R318	1-249-416-11	CARBON	820	5%	1/4W
R319	1-249-417-11	CARBON	1K	5%	1/4W
R320	1-249-435-11	CARBON	33K	5%	1/4W
R321	1-249-429-11	CARBON	10K	5%	1/4W
R324	1-249-429-11	CARBON	10K	5%	1/4W
R325	1-249-429-11	CARBON	10K	5%	1/4W
R326	1-249-437-11	CARBON	47K	5%	1/4W
R327	1-249-425-11	CARBON	4.7K	5%	1/4W
R328	1-249-429-11	CARBON	10K	5%	1/4W
R329	1-249-429-11	CARBON	10K	5%	1/4W
R330	1-249-429-11	CARBON	10K	5%	1/4W
R331	1-249-430-11	CARBON	12K	5%	1/4W
R332	1-249-433-11	CARBON	22K	5%	1/4W
R333	1-249-441-11	CARBON	100K	5%	1/4W
R334	1-249-429-11	CARBON	10K	5%	1/4W
R342	1-249-422-11	CARBON	2.7K	5%	1/4W
R343	1-249-416-11	CARBON	820	5%	1/4W
R346	1-249-429-11	CARBON	10K	5%	1/4W
R347	1-249-417-11	CARBON	1K	5%	1/4W
R348	1-249-437-11	CARBON	47K	5%	1/4W
R349	1-249-429-11	CARBON	10K	5%	1/4W
R350	1-247-881-00	CARBON	120K	5%	1/4W
R351	1-249-429-11	CARBON	10K	5%	1/4W
R352	1-249-429-11	CARBON	10K	5%	1/4W
R353	1-249-429-11	CARBON	10K	5%	1/4W
R354	1-249-429-11	CARBON	10K	5%	1/4W
R411	1-249-432-11	CARBON	18K	5%	1/4W
R413	1-249-431-11	CARBON	15K	5%	1/4W
R414	1-249-424-11	CARBON	3.9K	5%	1/4W
R416	1-249-428-11	CARBON	8.2K	5%	1/4W
R417	1-249-429-11	CARBON	10K	5%	1/4W
R418	1-249-416-11	CARBON	820	5%	1/4W
R419	1-249-417-11	CARBON	1K	5%	1/4W
R420	1-249-435-11	CARBON	33K	5%	1/4W
R427	1-249-425-11	CARBON	4.7K	5%	1/4W
R429	1-249-429-11	CARBON	10K	5%	1/4W

Ref.No.	Part No.	Description				
R430	1-249-429-11	CARBON	10K	5%	1/4W	
R431	1-249-430-11	CARBON	12K	5%	1/4W	
R432	1-249-433-11	CARBON	22K	5%	1/4W	
R433	1-249-441-11	CARBON	100K	5%	1/4W	
R434	1-249-429-11	CARBON	10K	5%	1/4W	
R449	1-249-429-11	CARBON	10K	5%	1/4W	
R450	1-247-881-00	CARBON	120K	5%	1/4W	
R453	1-249-429-11	CARBON	10K	5%	1/4W	
R454	1-249-429-11	CARBON	10K	5%	1/4W	
R501	1-249-435-11	CARBON	33K	5%	1/4W	
R502	1-249-435-11	CARBON	33K	5%	1/4W	
R503	1-249-425-11	CARBON	4.7K	5%	1/4W	
R504	1-249-435-11	CARBON	33K	5%	1/4W	
R505	1-249-435-11	CARBON	33K	5%	1/4W	
R506	1-249-425-11	CARBON	4.7K	5%	1/4W	
R507	1-249-435-11	CARBON	33K	5%	1/4W	
R508	1-249-435-11	CARBON	33K	5%	1/4W	
R509	1-249-425-11	CARBON	4.7K	5%	1/4W	
R510	1-249-435-11	CARBON	33K	5%	1/4W	
R511	1-249-435-11	CARBON	33K	5%	1/4W	
R512	1-249-425-11	CARBON	4.7K	5%	1/4W	
R513	1-247-903-00	CARBON	1M	5%	1/4W	
R515	1-249-425-11	CARBON	4.7K	5%	1/4W	
R516	1-249-425-11	CARBON	4.7K	5%	1/4W	
R517	1-249-425-11	CARBON	4.7K	5%	1/4W	
R518	1-249-435-11	CARBON	33K	5%	1/4W	
R519	1-249-435-11	CARBON	33K	5%	1/4W	
R525	1-249-437-11	CARBON	47K	5%	1/4W	
R526	1-249-437-11	CARBON	47K	5%	1/4W	
R527	1-249-433-11	CARBON	22K	5%	1/4W	
R601	1-249-426-11	CARBON	5.6K	5%	1/4W	
R602	1-249-426-11	CARBON	5.6K	5%	1/4W	
R603	1-249-431-11	CARBON	15K	5%	1/4W	
R604	1-249-429-11	CARBON	10K	5%	1/4W	
R605	1-249-431-11	CARBON	15K	5%	1/4W	
R606	1-249-441-11	CARBON	100K	5%	1/4W	
R607	1-249-431-11	CARBON	15K	5%	1/4W	
R608	1-249-429-11	CARBON	10K	5%	1/4W	
R609	1-249-431-11	CARBON	15K	5%	1/4W	
R611	1-249-422-11	CARBON	2.7K	5%	1/4W	
R701	1-249-413-11	CARBON	470	5%	1/4W	
R702	1-249-437-11	CARBON	47K	5%	1/4W	
R703	1-249-437-11	CARBON	47K	5%	1/4W	
R751	1-249-413-11	CARBON	470	5%	1/4W	
R752	1-249-437-11	CARBON	47K	5%	1/4W	
R753	1-249-437-11	CARBON	47K	5%	1/4W	
R853	1-249-429-11	CARBON	10K	5%	1/4W	
R854	1-249-419-11	CARBON	1.5K	5%	1/4W	
R901	1-249-417-11	CARBON	1K	5%	1/4W	
R910 ⚠	1-212-879-11	FUSIBLE	82	5%	1/4W	F
R911 ⚠	1-212-879-11	FUSIBLE	82	5%	1/4W	F
R912	1-249-425-11	CARBON	4.7K	5%	1/4W	
R913	1-249-419-11	CARBON	1.5K	5%	1/4W	
R914 ⚠	1-212-859-00	FUSIBLE	12	5%	1/4W	F
R915 ⚠	1-212-859-00	FUSIBLE	12	5%	1/4W	F
R916	1-249-393-11	CARBON	10	5%	1/4W	

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref.No.	Part No.	Description
S001	1-554-303-21	SWITCH, KEY BOARD (EFFECT)
S002	1-554-303-21	SWITCH, KEY BOARD (DISPLAY)
S003	1-554-303-21	SWITCH, KEY BOARD (SURROUND)
S004	1-554-303-21	SWITCH, KEY BOARD (DELAY)
S005	1-554-303-21	SWITCH, KEY BOARD (SELECT 10 1-10)
S006	1-554-303-21	SWITCH, KEY BOARD (PERSONAL FILE 1-5)
S007	1-554-303-21	SWITCH, KEY BOARD (1 HALL)
S008	1-554-303-21	SWITCH, KEY BOARD (2 ORCHESTRA)
S009	1-554-303-21	SWITCH, KEY BOARD (3 THEATER)
S010	1-554-303-21	SWITCH, KEY BOARD (4 SIMULATED)
S011	1-554-303-21	SWITCH, KEY BOARD (5 JAZZ CLUB)
S012	1-554-303-21	SWITCH, KEY BOARD (6 GYM)
S013	1-554-303-21	SWITCH, KEY BOARD (7 DISCO)
S014	1-554-303-21	SWITCH, KEY BOARD (8 BGM)
S015	1-554-303-21	SWITCH, KEY BOARD (9 WM)
S016	1-554-303-21	SWITCH, KEY BOARD (10 CAR)
S017	1-554-303-21	SWITCH, KEY BOARD (FLAT)
S018	1-554-303-21	SWITCH, KEY BOARD (REVERSE)
S019	1-554-303-21	SWITCH, KEY BOARD (MEMORY)
S021	1-554-303-21	SWITCH, KEY BOARD (△)
S022	1-554-303-21	SWITCH, KEY BOARD (▽)
S023	1-554-303-21	SWITCH, KEY BOARD (▷)
S024	1-554-303-21	SWITCH, KEY BOARD (◁)
S025	1-554-303-21	SWITCH, KEY BOARD (L)
S026	1-554-303-21	SWITCH, KEY BOARD (L+R)
S027	1-554-303-21	SWITCH, KEY BOARD (R)
S028	1-554-303-21	SWITCH, KEY BOARD (DSC)
S850 ⚠	1-554-920-11	SWITCH, PUSH (AC POWER)(1 KEY)
T850 ⚠	1-450-117-11	(UK).....TRANSFORMER, POWER
T850 ⚠	1-450-118-11	(E,Saudi Arabia)...TRANSFORMER, POWER
T850 ⚠	1-450-119-11	(AEP,WG).....TRANSFORMER, POWER
VS850 ⚠	1-572-367-11	(E,Saudi Arabia) ...SWITCH, VOLTAGE SELECTOR
X001	1-577-359-21	VIBRATOR, CERAMIC (4.19MHz)
X502	1-567-818-21	VIBRATOR, CERAMIC (3.58MHz)

ACCESSORY & PACKING MATERIAL

1-559-533-11	(AEP,WG)...CORD, CONNECTION
1-574-265-11	(AEP,WG)...CORD (WITH CONNECTOR)
3-751-570-11	(AEP).....MANUAL, INSTRUCTION
3-751-570-41	(AEP,WG)...MANUAL, INSTRUCTION
4-920-940-01	(UK,E,Saudi Arabia)...SHEET (A), PROTECTION
*4-929-563-01	(UK,E,Saudi Arabia)...CUSHION
*4-937-352-01	(AEP,WG).....CUSHION
*4-937-351-01	(AEP,WG)...INDIVIDUAL CARTON

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

9-955-860-11

Sony Corporation
Audio Group

English
90D0470-1
Printed in Japan
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